

Qualifications

- Bachelor's degree in Computer Science
- *Languages:* Python, Java, C/C++, MATLAB
- *Web Development:* JavaScript, JQuery, PHP, JSP, Struts, AJAX
- *Databases:* DB2, MySQL, PostgreSQL, JDBC
- *Operating Systems:* Linux, UNIX, Windows
- *Web and Application Servers:* Apache, WebSphere Application Server, Node.js
- *Certification:* IBM Certified Database Associate

Education

University of Toronto

Toronto, ON

Honours Bachelor of Science

September 2009 - May 2014

- Specialist in Computer Science - Software Engineering Focus
- Winner of Queen Elizabeth II Aiming for the Top Scholarship
- *Relevant Courses:* Web Programming, Operating Systems, Algorithms and Data structures, Database System Technology, Software Design, Programming Languages, Machine Learning and Data Mining

Work Experience

IBM Canada Ltd

Toronto, ON

Software Developer Intern

May 2012 - August 2013

- Implemented server side tasks using Servlets and XML
- Developed Web services (SOAP) to interact with other components
- Used parsers like SAX and DOM for parsing XML documents and used XML transformations using XSLT
- Created and deployed web pages using HTML, JSP, JavaScript and CSS
- Used JSF framework in developing user interfaces using JSF UI Components, Validator, Events and Listeners
- Involved in WebSphere Application server Installation and configuration including Enterprise app configuration and database connection pool configuration
- Designed and implemented tables, functions, stored procedures and triggers in DB2
- Administered DB2 Databases

University of Toronto Software Engineering Lab

Toronto, ON

Research Assistant Intern

May 2011 - August 2011

- Worked on the development and testing of OpenOME (Requirement Engineering modeling and analysis tool) Eclipse plugin based on Graphical Modeling Framework
- Implemented a parser using Java to convert to/from modeling languages such as i*, Q7 and iStarML
- Implemented interoperability of OpenOME models among tools that implemented different i* invariant
- Used Finite State Machine to parse Q7 and XSLT style sheet to parse iStarML
- Gained knowledge of Eclipse IDE, Java, and Eclipse Modeling Frameworks

Projects

Room Booking System

- Lead a time of five to create a web based Room Booking System using PHP and MySQL
- Delivered it to a real world client
- Coordinated group tasks using Dr. Project
- Adapted a Scrum development process to integrate feedback from client
- Used Model-View-Controller design pattern to organize the code

Facial Expression Recognition

- Implemented machine learning algorithms to recognize expressions in images using MATLAB
- Used data preprocessing to improve classification rate
- Used techniques such as dimensionality reduction to increase efficiency

Ray Tracer

- Created a program to render 3D images using C++
- Designed a modular program so new features can be implemented easily
- Implemented glossy reflections, soft shadows, depth of field and refraction

Data Compression

- Created a data compression tool that compressed files up to 90% of their original data using Huffman algorithm and Python

Multi-player Arcade Game

- Designed a Python based two player game using Swing toolkit and Model-View-Controller concepts
- The game allowed players to navigate around a maze and achieve high scores based on prizes collected

Symantec language processor

- Built a natural language and HTML parser that provided search engine using Java
- Users searched for academic researchers in a given field
- Adapted Scrum software development process

Extracurricular Activities

Department of Computer Science Ambassador

- Represented the Department of Computer Science at a variety of outreach and liaison events
- Welcomed prospective students to the campus and provided them with information and a student perspective on life at UofT
- Helped out with events where department showcased their best work to industry partners

Computer Science Student Union Public Relations Officer

- Outreaching first year computer science and non-computer science students to promote interest in the field
- Organization of social and academic events throughout the year including programming competitions hosted by industry leaders

Interests

Playing and watching Soccer, Competing on Kaggle, and Music